PROCEEDINGS

OF THE

CALIFORNIA ACADEMY OF SCIENCES

4th Series

Volume 59
2008

Volume 59 includes articles numbered 1–20 and Short Communications, which were published in three issues and are here indexed collectively, and Supplement I, which was published and indexed separately.

California Academy of Sciences
55 Music Concourse Drive
San Francisco, California 94118

SCIENTIFIC PUBLICATIONS DEPARTMENT

Alan E. Leviton, Ph.D., *Editor*
Hallie Brignall, M.A., *Managing Editor*
Gary C. Williams, Ph.D., *Associate Editor*
Michael T. Ghiselin, Ph.D., *Associate Editor*
Michele L. Aldrich, Ph.D., *Consulting Editor*

ISSN 0068-547X

Copyright © 2008 California Academy of Sciences
55 Music Concourse Drive, San Francisco, California 94118

All Rights reserved.

Printed in the United States of America
by Allen Press, Inc., Lawrence, Kansas 66044

Table of Contents

Volume 59, Articles 1–XX and Short Communications

ACKNOWLEDGMENTS OF PEER REVIEWERS FOR VOLUME 59 ix

(*May 16, 2008*)

DARRELL UBICK AND THOMAS S. BRIGGS: The Harvestman Family Phalangodidae. 6. Revision of the *Sitalcina* Complex (Opiliones: Laniatores) 1

THOMAS F. DANIEL: A New *Ruellia* (Acanthaceae) from Guerrero, Mexico 109

JOHN E. MCCOSKER: *Trachyscorpia osheri* and *Idiastion hageyi*, Two New Species of Deepwater Scorpionfishes (Scorpaeniformes: Sebastidae, Scorpaenidae) from the Galápagos Islands 113

TOMIO IWAMOTO AND ALEXEI ORLOV: First Atlantic Record of *Asthenomacrurus victoris* Sazonov & Shcherbachev (Macrouridae, Gadiformes, Teleostei) 125

TOMIO IWAMOTO AND KEN J. GRAHAM: Two New Australian Grenadiers of the *Coelorinchus fasciatus* Species Group (Macrouridae: Gadiformes: Teleostei) 133

PETER W. FRITSCH, LIHUA ZHOU, LU LU, AND BRUCE BARTHOLOMEW: The Flowering Plant Genus *Gaultheria* (Ericaceae) in the Gaoligong Shan, along the Border Region of China and Myanmar 147

THOMAS F. DANIEL: One Hundred and Fifty Years of Botany at the California Academy of Sciences (1853–2003) 215

(*September 30, 2008*)

WOJCIECH J. PULAWSKI AND MICHAEL A. PRENTICE: A Revision of the Wasp Tribe Palarini Schrottky, 1909 (Hymenoptera: Apoidea: Crabronidae) 307

DAVID H. KAVANAUGH AND JAMES R. LABONTE: Discovery of *Nebria brevicollis* (Fabricius) (Coleoptera: Carabidae: Nebriini), a European Ground Beetle, Established in the Willamette Valley, Oregon 481

RICARDO KRIEBEL, REINALDO AGUILAR, AND FRANK ALMEDA: A New and Threatened Arborescent *Miconia* (Melastomataceae: Miconieae) from the Osa Peninsula, Costa Rica . 489

DAVID W. GREENFIELD AND JOHN E. RANDALL: *Eviota tigrina*, a New Goby from Tonga (Teleostei: Gobiidae) 497

RAMÓN ANDRÉS LÓPEZ PÉREZ: Fossil Corals from the Gulf of California, México: Still a Depauperate Fauna but it Bears More Species than Previously Thought 503

ALICIA HERMOSILLO AND ÁNGEL VALDÉS: Two New Species of Opisthobranch Mollusks from the Tropical Eastern Pacific 521

(*December 30, 2008*)

GARY C. WILLIAMS: William Dampier: Science, Exploration, and Literary Influence, Including his *Hydrographic Treatise* of 1699 533

DAVID W. GREENFIELD, RICHARD WINTERBOTTOM, AND BRUCE B. COLLETTE: Review of the Toadfish Genera (Teleostei: Batrachoididae) 665

JOHN E. MCCOSKER AND JOHN E. RANDALL: A New Species of Indo-Pacific Moray Eel (Anguilliformes: Muraenidae) From Indonesia 711

JOHN E. MCCOSKER1 AND PETER WIRTZ: Notes on *Brachysomophis atlanticus* from the Cape Verde Archipelago 715

BRIAN HETERICK: A Revision of the Malagasy Ants Belonging to the Genus *Monomorium* Mayr, 1855 (Hymenoptera: Formicidae): Amendment 719

ANDRÉ DOS SANTOS BRAGANÇA GIL, NÁDIA SAID CHUKR, ANA MARIA GIULIETTI, AND MARIA DO CARMO E. AMARAL: *Pseudiris speciosa*, a New Genus and Species of *Trimezieae* (Iridioideae, Iridaceae) from Chapada Diamantina, Brazil 723

NOTICE OF RETRACTION AND CORRIGENDUM 731

INDEX TO VOLUME 59 AND SUPPLEMENT 733

Supplement I

(*September 30, 2008*)

MICHAEL T. GHISELIN AND ALAN E. LEVITON: Preface v

GIOVANNI PRATESI: Welcome to Delegates in Florence. vii

SARA FERRI: Welcome to Delegates in Siena ix

MICHAEL T. GHISELIN AND CLAUDIA CORTI: Introduction xi

MARCO MASSETI: The Most Ancient Explorations of the Mediterranean. 1

FAUSTO BARBAGLI, GIOVANNA CIUFFI, MARINA CLAUSER, PIERO CUCCUINI, LUCIANA FANTONI, GIANNA INNOCENTI, CHIARA NEPI, DANIELA PARRINI, MARTA POGGESI, LUISA POGGI, AND MONICA ZAVATTARO: The Natural History Museum of Florence and Its Contribution to the Knowledge of the Mediterranean 19

EZIO VACCARI: "Volcanic travels" and the Development of Volcanology in the 18th Century. . . 37

AGNESE VISCONTI: The Naturalistic Explorations of the Milanese Barnabite Ermenegildo Pini (1739-1825) Along the Coast of Calabria: New Observations and Implications with Regard to His Views on the History of the Earth 51

PIETRO OMODEO AND EMILIA ROTA: Earthworm Diversity and Land Evolution in Three Mediterranean Districts 65

VALENTIN PÉREZ-MELLADO, CLAUDIA CORTI, AND JOSEP MIQUEL VIDAL: Herpetological Explorations of the Balearic Islands During the Last Two Centuries 85

NICOLA BACCETTI AND JOE SULTANA: Local Ornithologists and the Early Study of Central Mediterranean Avifauna: The Role of Schembri and Damiani in the Maltese and Tuscan islands 111

TERRENCE M. GOSLINER, JUAN LUCAS CERVERA, AND MICHAEL T. GHISELIN: Scientific Exploration in the Mediterranean Region Biodiversity of the Mediterranean Opisthobranch Gastropod Fauna: Historical and Phylogenetic Perspectives 117

CHRISTIANE GROEBEN: Tourists in Science: 19th Century Research Trips to the Mediterranean 139

MICHAEL T. GHISELIN: British Use and Support of the Naples Zoological Station Prior to the First World War 155

SERGEI I. FOKIN: Russian Biologists at Villafranca 169

SANDRA CASELLATO: Marine Biology in the Adriatic Sea: An Historical Review 193

GIOVANNI PINNA: Scientific Travels and the Wealth of Nations 207

INDEX 219

Proceedings, Volume 59

Errata

Page (Para.)	Line	Corrections
322 (Fig. 6 legend)		*Meopalarus* to read *Mesopalarus*
500 (3)	1	*Eviota storhynx* to read *Eviota storthynx*
529 (7)	8	*Bethella* to read *Berthella*

Acknowledgments

The Editors of the Academy's Scientific Publications wish to acknowledge, with thanks, the efforts of the many reviewers who have given unstintingly of their time and knowledge to review papers submitted for publication in the Academy's *Proceedings*, ser. 4, volume 59 for year 2008. The following persons provided critical expertise: Michele L. Aldrich (History of Sciences, Hatfield, MA); Frank Almeda (Botany, California Academy of Sciences); Steven C. Anderson (Biology, University of the Pacific, Stockton, CA); Chris Andrews (Aquarium, California Academy of Sciences); Aaron Bauer (Biology, Villanova University, Villanova, PA); Hallie Brignall (Scientific Publications, California Academy of Sciences); Stephen Cairns (Invertebrate Zoology, National Museum of Natural History, Washington, DC); Thomas Daniel (Botany, California Academy of Sciences); Michael T. Ghiselin (Invertebrate Zoology, California Academy of Sciences); Peter Goldblatt (Missouri Botanical Garden, St. Louis); Terrence Gosliner (Invertebrate Zoology, California Academy of Sciences); David Greenfield (University of Hawaii, Honolulu [ret.]); Charles Griswold (Entomology, California Academy of Sciences); Tomio Iwamoto (Ichthyology, California Academy of Sciences); David Kavanaugh (Entomology, California Academy of Sciences); David Maddison (University of Arizona, Tucson, AZ); John McCosker (Aquatic Biology, California Academy of Sciences); David Middleton (Royal Botanical Gardens, Edinburgh); Rich Mooi (Invertebrate Zoology, California Academy of Sciences); Wojciech J. Pulawski (Entomology, California Academy of Sciences); Erin Tripp (Duke University, Durham, NC); Jeffery Wilkinson (Herpetology, California Academy of Sciences; Gary C. Williams (Invertebrate Zoology, California Academy of Sciences); Guinevere O.U. Wogan (Integrative Biology, University of California, Berkeley, CA).

Alan E. Leviton, Ph.D., Editor
Hallie Brignall, M.A., Managing Editor
Gary C. Williams, Ph.D., Associate Editor
Michael T. Ghiselin, Ph.D., Associate Editor
Michele L. Aldrich, Ph.D., Consulting Editor

30 December 2008

PROCEEDINGS

OF THE

CALIFORNIA ACADEMY OF SCIENCES

Series 4, Volume 59